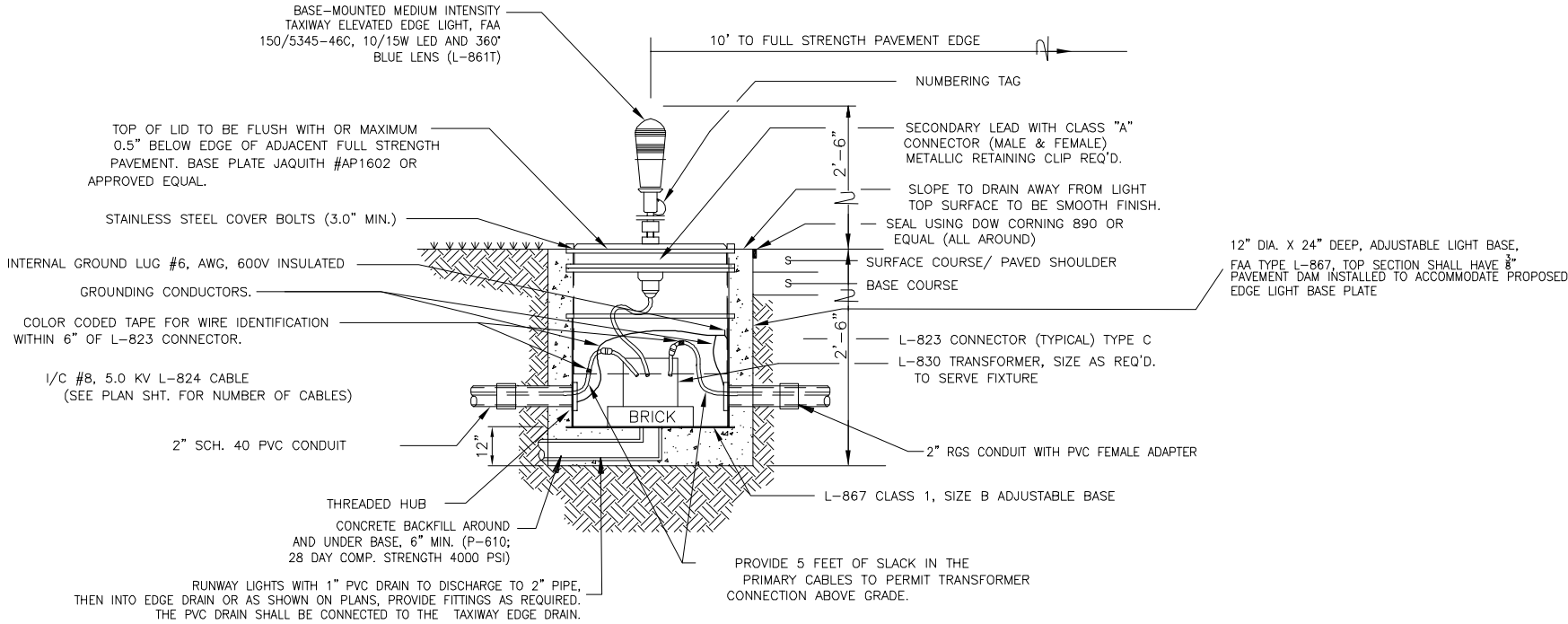


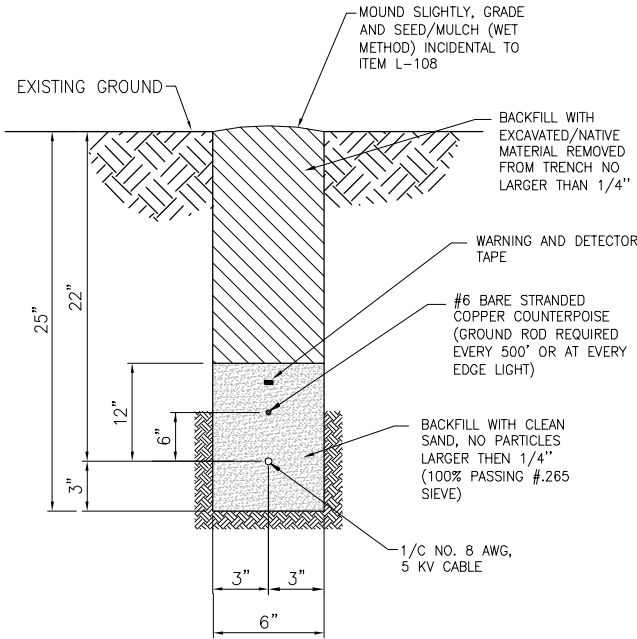
EDGE LIGHT NOTES

1. ALL TYPE "C" CABLE TO BE MEGGERED BETWEEN BASE MOUNTED UNITS WITH RESISTANCE TO GROUND OF ANY SUCH SECTION BEING INFINITY.
2. BREAKABLE COUPLING LOCATED 1 1/2" MAX. ABOVE COVER. MANUFACTURER SHALL PROVIDE AT LEAST A 1/4" DIA. OPENING OR EQUAL FOR DRAINAGE INTO L-867 BASE. WEEP HOLES IN THE COUPLING SHALL BE TO THE OUTSIDE.
3. ALL CONCRETE SHALL COMPLY WITH ITEM P-610 OF 28 DAY STRENGTH NOTED.
4. FOR LIGHTS INSTALLED IN PAVED SHOULDER AREAS, ADJUSTABLE BAS CANS SHALL BE INSTALLED PRIOR TO PAVING. UPON COMPLETION OF PAVING, THE BITUMINOUS PAVEMENT SHALL BE NEATLY CORED AND REMOVED TO ALLOW FOR ADJUSTMENT OF THE CAN TO FINISH GRADE AND PLACING TOP SECTION OF CONCRETE (MINIMUM TOP SECTION OF CONCRETE TIE BARS AND ONE #3 HOOP REQUIRED).



BASE MOUNTED EDGE LIGHT

NTS (SEE PLANS FOR LOCATION)



CONDUIT TRENCH DETAIL
DIRECT EARTH-BURIED

NTS

NOTE:
FOR MULTIPLE CABLE TRENCHES, CABLES SHALL BE SEPARATED 3" MIN WIDEN TRENCH ACCORDINGLY.

THE DULUTH AIRPORT AUTHORITY (DAA) DESIGN STANDARD FOR HIGH INTENSITY RUNWAY LIGHTS AND MEDIUM INTENSITY TAXIWAY LIGHTS IS COOPER-CROUSE-HINDS. THE CONTRACTOR MAY SUBMIT FAA APPROVED EQUAL ALTERNATIVES FOR CONSIDERATION, HOWEVER THE EVALUATION AND ACCEPTANCE OF ALTERNATIVE MANUFACTURERS MAY BE CONTINGENT UPON A DETERMINATION OF COMPATIBILITY WITH EXISTING SIGNS AND THE PROVISION OF IN-HOUSE TRAINING SESSIONS BY THE MANUFACTURER FOR DAA SUPERVISORY AND MAINTENANCE PERSONNEL.

NOTES

1. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW AND APPROVAL A CABLE PHASING PLAN A MINIMUM OF 21 DAYS PRIOR TO THE STARTING CONSTRUCTION WITHIN 50 FEET OF ANY FAA RADAR, CONTROL OR COMMUNICATIONS CABLE. THE PLAN SHALL OUTLINE HOW THE CABLE WILL BE PROTECTED DURING CONSTRUCTION/EXCAVATION IN ORDER TO PREVENT DAMAGE AND MEASURES TAKEN IN THE EVENT RADAR, CONTROL OR COMMUNICATIONS CABLES ARE DAMAGED OR CUT AND SHOULD ALSO INCLUDE SCHEDULE, LABOR, MATERIALS AND EQUIPMENT TO BE USED WHEN WORKING WITHIN 50 FEET OF THE RADAR, CONTROL OR COMMUNICATIONS CABLES.
2. THE FAA CABLES INCLUDE ASR RADAR COAX CABLES, 100 PAIR AND 50 PAIR CONTROL/COMMUNICATIONS CABLES. EVERY EFFORT HAS BEEN MADE TO SHOW THE APPROXIMATE LOCATION OF THE CABLES. FAA SHALL LOCATE THE CABLES ON ONE OCCASION AND IT SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THE CABLES LOCATED ARE PROTECTED. IN THE EVENT OF ANY DAME TO THE CABLES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY AND SHALL BE PREPARED TO REPAIR THEM IMMEDIATELY.
3. FAA TECHNICIANS MAY BE AVAILABLE DURING NORMAL FAA WORKING HOURS FOR MONITORING AND MARKING THE CABLE DURING ANY CONSTRUCTION ADJACENT TO ANY FAA CABLE TO HELP ENSURE THE FAA CABLES ARE NOT DAMAGED OR DESTROYED, BUT THE CONTRACTOR SHALL NOT EXPECT FAA TO MONITOR CONTINUOUSLY OR MARK THE CABLES ON NUMEROUS OCCASIONS.
4. THE INTENT OF THIS PROJECT IS TO PROTECT THE CABLES FROM DAMAGE. NO ADDITIONAL PAYMENT WILL BE MADE TO THE CONTRACTOR FOR REPAIR OF CABLES DAMAGED AS PART OF THIS CONTRACT.
5. CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY RUNWAY LIGHTING AS REQUIRED TO KEEP RUNWAY OPEN. REFER TO THE SPECIFICATIONS FOR DISTANCE OF RUNWAY REQUIRING LIGHTS AND DURATION.
6. REFER TO SHEET C200-C201 AND C700-C701 FOR PAVEMENT GEOMETRY AND MARKINGS.
7. PROVIDE 4" PVC DRAIN FROM ALL HANDHOLES AND 1" PVC DRAIN FROM EACH LIGHT BASE CAN TO THE SUB-DRAIN SYSTEM.

NORTH
BUSINESS
DEVELOPMENT
AREA

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature *Darren K. Christopher*

Typed Name DARREN K. CHRISTOPHER

Date 08/18/2009 Reg. No. 45052

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 08-18-2009

REVIEWED BY: MLS

DRAWN BY: JKE

DESIGNED BY: DKC

AEP PROJECT NUMBER

214-1882-077

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SHEET TITLE
ELECTRICAL
DETAILS

SHEET NUMBER

E301

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DOCUMENTS